UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,621	12/05/2003	John J. Thrall	600189-057	2930
61834 DREIER LLP	7590 01/10/2008		EXAM	IINER
499 PARK AVE			LEWIS, ALICIA M	
NEW YORK,	NEW YORK, NY 10022		ART UNIT	PAPER NUMBER
			2164	
			MAIL DATE	DELIVERY MODE
			01/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
•	10/729,621	THRALL, JOHN J.			
Office Action Summary	Examiner	Art Unit			
	Alicia M. Lewis	2164			
The MAILING DATE of this communication app	ears on the cover sheet w	rith the correspondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versiling to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a vill apply and will expire SIX (6) MOI , cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 19 O	Responsive to communication(s) filed on 19 October 2007.				
,	•				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1,2,4-16 and 18-25</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,2,4-16 and 18-25</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers		•			
9) The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex	caminer. Note the attache	ed Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119		•			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
	-				
•		SAM RIMELL			
Attachment(s) PRIMARY EXAMINER					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		Informal Patent Application			

Art Unit: 2164

DETAILED ACTION

This office action is responsive to communication filed October 19, 2007. Claims 1, 19 and 25 are currently amended, and claim 17 has been canceled. Therefore, claims 1, 2, 4-16 and 18-25 remain pending in this application.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1, 2, 4-16, and 18-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al. (US Patent Application Publication 2005/0071255 A1) ('Wang') in view of Bem (US Patent Application Publication 2005/0080772 A1), and further in view of Golding et al. (US Patent 6,640,218 B1) ('Golding').

With respect to claims 1, 19 and 25, Wang teaches:

tracking clicks by users on data returned in a search result in response to a query (element 126 in Figure 1, paragraph 27 lines 3-5, paragraph 28 lines 1-4); and

determining a user preference for a clicked data in accordance with a physical position of the clicked data in the search result (paragraphs 26, 30, 34).

Art Unit: 2164

Wang does not explicitly teach calculating the quotient of actual clicks and clicks expected for the clicked data and a specific query.

Bem teaches using match confidence to adjust a performance threshold (see abstract) in which he teaches calculating the quotient of actual clicks and clicks expected for the clicked data and a specific query (paragraphs 75 lines 1-3 and 18-19, paragraphs 79-81, and paragraph 94).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Wang by the teaching of Bem because calculating the quotient of actual clicks and clicks expected for the clicked data and a specific query would enable an ad (search result) score to be adjusted using a score adjustment parameter, which takes into account a ratio of click-through data (paragraphs 59 and 79).

Further regarding claims 1, 19 and 25, Wang in view of Bem does not teach using the determined user preference to determine rankings for display of future search results.

Golding teaches estimating the usefulness of an item in a collection of information (see abstract), in which he teaches using the determined user preference to determine rankings for display of future search results (column 2 lines 48-52).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have further modified Wang by the teaching of Golding because using the determined user preference to determine rankings for display of future search results would enable a method do determine popularity measures of sets

Art Unit: 2164

of criteria and to determine the overall popularity of an item, with respect to a particular period of time (Golding, column 2 lines 60-64, column 11 lines 53-60).

With respect to claims 2 and 20, Wang as modified teaches wherein determining a user preference for a clicked data is further performed in accordance with a number of clicks made by users on the data returned in the search result (Wang, paragraph 31 lines 6-9, paragraph 37 lines 1-3).

With respect to claim 4, Wang as modified teaches wherein determining a user preference is performed periodically (Wang, paragraph 31).

With respect to claim 5, Wang as modified teaches wherein determining a user preference is performed weekly (Golding, column 11 lines 53-60).

With respect to claim 6, Wang as modified teaches wherein determining a user preference is performed in real time (Golding, column 11 line 65 – column 12 line 12).

With respect to claim 7, Wang as modified teaches further comprising determining values in a weight table based on user preferences for physical positions within search results independent of a query (Wang, paragraphs 33-34, page 8 claim 4; Golding, column 4 lines 47-53, column 8 lines 61-62).

Art Unit: 2164

Golding teaches a relevance metric (weight) based on user preferences and Wang teaches adjusting a score to account for physical positions within search results

With respect to claims 8 and 21, Wang as modified teaches wherein determining a user preference for a clicked data in accordance with a physical position of the data in the search result is performed in accordance with weight values determined by observed user click behavior (Wang, paragraph 28).

With respect to claim 9, Wang as modified teaches wherein determining a user preference for a clicked data in accordance with a physical position of the data in the search result is performed in accordance with weight values determined by trial and error (Bem, paragraphs 71, 74 and 96).

With respect to claim 10, Wang as modified teaches wherein tracking clicks by users includes tracking: a query, a data fingerprint, and a position in the search results for a click on data from a search result for a specific query (Wang, paragraph 29).

With respect to claim 11, Wang as modified teaches wherein tracking clicks by users further includes tracking: a time the click occurred and user ID information (Wang, paragraph 29).

Because there are multiple users of the system, it is implied that user ID information is tracked (Wang, paragraph 28 lines 1-3).

Art Unit: 2164

With respect to claims 12 and 22, Wang as modified teaches wherein determining a user preference further includes weighting click information so that clicks by users on data in unpopular positions in the search results migrate that data toward the top of future search results (Golding, column 7 lines 16-20).

With respect to claim 13, Wang as modified teaches further including normalizing the click information before the determining step (Wang, paragraph 33 lines 1-2).

With respect to claim 14 and 23, Wang as modified teaches wherein the data is image data (Wang, paragraph 27 lines 9-10).

With respect to claim 15, Wang as modified teaches wherein the data is shopping data (Wang, paragraph 27 lines 7-8).

With respect to claim 16, Wang as modified teaches wherein the data is textual data (Wang, paragraph 27 lines 9-10).

With respect to claim 18, Wang as modified teaches wherein determining a user preference includes determining context dependent user preference scores in accordance with a characteristic of the users clicking on the search results (Wang, paragraph 35).

Art Unit: 2164

With respect to claim 24, Wang as modified teaches wherein determining a user preference uses a plurality of weight tables corresponding to ones of a plurality of user interfaces displaying the search result (Golding, column 3 lines 34-38, column 8 lines 64-67).

Response to Arguments

3. Applicant's arguments filed October 19, 2007 have been fully considered but they are not persuasive. Applicant argues that Bem does not teach "calculating the quotient of actual clicks and clicks expected for the clicked data and a specific query," and more specifically that Bem teaches away from claims 1, 19 and 25 because he teaches the utilization of a score adjustment parameter rather than the direct quotient of the actual clicks and clicks expected. Examiner disagrees. Bem teaches that as the number of clicks and impressions get large, his formula converges to a quotient of actual clicks and clicks expected, without the use of a score adjustment parameter (paragraph 81); the Applicant even points this out in page 8 of his arguments. Therefore, it is clear that in one embodiment, Bem does in fact teach calculating a quotient of actual clicks and clicks expected, as admitted by Applicant. There are no provisions in the claims as to the number of clicks and impressions that must be observed.

Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2164

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia M. Lewis whose telephone number is 571-272-5599. The examiner can normally be reached on Monday - Friday, 9 - 6:30, alternate Friday off.

than SIX MONTHS from the mailing date of this final action.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on 571-272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2164

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alicia Lewis January 2, 2008

